- (b) On a nonmetallic vessel, where a ground plate is provided for radio equipment, it must be connected to the common ground.
- (c) Equipment grounding conductors must be sized in accordance with Section 250-95 of the NEC (NFPA 70), or other standard specified by the Commandant.
- (d) Each insulated grounding conductor of a cable must be identified by one of the following means.
 - (1) A green braid or green insulation;
- (2) Stripping the insulation from the entire exposed length of the grounding conductor; or
- (3) Marking the exposed insulation of the grounding conductor with green tape or green adhesive labels.
- (e) Cable armor must not be used to ground electrical equipment of systems.

§ 120.376 Grounded distribution systems (Neutral grounded).

- (a) If a grounded distribution system is provided, there must be only one connection to ground, regardless of the number of power sources. This ground connection must be at the switchboard or at the common ground plate, which must be accessible.
- (b) Each propulsion, power, lighting, or distribution system having a neutral bus or conductor must have the neutral grounded.
- (c) The neutral or each grounded generation and distribution system must be grounded at the generator switchboard and have the ground connection accessible for checking insulation resistance of the generator to ground before the generator is connected to the bus, except the neutral of an emergency power generation system must be grounded with:
- (1) No direct ground connection at the emergency switchboard;
- (2) The neutral bus permanently connected to the neutral bus on the main switchboard; and
- (3) No switch, circuit breaker, or fuse in the neutral conductor of the bus-tie feeder connecting the emergency switchboard to the main switchboard.
- (d) On a metallic vessel, a grounded alternating current system must be grounded to the hull. On a nonmetallic vessel, the neutral must be connected

to the common ground, except that aluminum grounding conductors must not be used.

§120.378 Ungrounded systems.

Each ungrounded system must be provided with a suitably sensitive ground detection system, located at the respective switchboard, that provides continuous indication of circuit status to ground with a provision to momentarily remove the indicating device from the reference ground.

[CGD 85-080, 62 FR 51352, Sept. 30, 1997]

§ 120.380 Overcurrent protection.

- (a) Overcurrent protection must be provided for each ungrounded conductor for the purpose of opening the electric circuit if the current reaches a value that causes an excessive or dangerous temperature in the conductor or conductor insulation.
- (b) The grounded conductor of a circuit must not be disconnected by a switch or circuit breaker, unless the ungrounded conductors are simultaneously disconnected.
- (c) A conductor of a control, interlock, or indicator circuit, such as a conductor for an instrument, pilot light, ground detector light, or potential transformer, must be protected by an overcurrent device.
- (d) Conductors must be protected in accordance with their current carrying capacities. If the allowable current carrying capacity does not correspond to a standard device size, the next larger overcurrent device may be used provided it does not exceed 150 per cent of the conductor current carrying capacity.
- (e) Steering gear control system circuits must be protected against short circuit.
- (f) Each steering gear feeder circuit must be protected by a circuit breaker that meets the requirements of §58.25–55 in subchapter F of this chapter.
- (g) Each lighting branch circuit must be protected against overcurrent either by fuses or circuit breakers rated at not more than 30 amperes.
- (h) Overcurrent devices capable of carrying the starting current of the motor must be installed to protect motors, motor conductors, and control apparatus against: